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SEVENTH ANNUAL REPORT

1962

INFANT

and

NEONATAL MORTALITY

and

STILLBIRTH RATES

by

MONTANA HOSPITALS

PREPARED BY:

MONTANA STATE BOARD OF HEALTH

DIVISION OF CHILD HEALTH SERVICES

DIVISION OF RECORDS AND STATISTICS

- AND -

MONTANA MEDICAL ASSOCIATION

MATERNAL & CHILD WELFARE COMMITTEE

HELENA, MONTANA

Dr. J. C. Tracy  
100 South 10th Avenue  
Helena, Montana 59601

Montana State Library



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## FOREWORD

TO: Hospital Administrators  
Medical Staffs, and Nurses

This is the current report of certain vital statistics about events occurring in Montana hospitals. To the usual tabulation of live births, fetal, neonatal, and infant deaths, there has been added the figures on perinatal mortality.

In each of the four groups into which the hospitals are classified there is no attempt to rank the hospitals by any particular "rate". The hospitals are arranged in order of their total live births, as reported on their quarterly information summaries. This information on vital statistics is distributed to the medical and nursing professions and to hospital administrators so that they may evaluate their own statistics and compare them with other hospitals having comparable birth rates.

While hospitals with maternity beds did cooperate with the State Board of Health and the Maternal and Child Welfare Committee of the Montana Medical Association by returning quarterly information on these vital statistics, a discrepancy was noted in the figures obtained from the Vital Records and from the quarterly reports. Infant deaths, for example, were 351 (vital records) as compared to 308 (quarterly reports), while total live births were 16,515 and 16,541 (same sequence). Most of the reports were identical or showed a minor variation of 1 to 2 reported events. However, infant deaths were considerably under-reported on some of the quarterly summaries, while live births were over-reported by as much as 20 to 30 in many instances. Only a few births were under-reported (8 to 11 to 29 events).

In 1962, the birth rate in Montana, by place of occurrence (this does not include deliveries outside the hospital), continued to decline, with a rate of 23.4 per 1,000 estimated population. There were no essential changes in rates from 1961 except in the 1 - 12 months group in the infant deaths.

<u>DEATHS</u>	<u>1961</u>	<u>1962</u>
Fetal (stillbirth)	11.0 (184)	13.1 (216)
Neonatal (birth to 28 days)	17.6 (296)	15.7 (260)
Perinatal (neonatal & fetal)	28.6 (480)	28.8 (476)
Infant (birth to 12 months)	19.1 (320)	18.5 (306)
Infant (1 - 12 months)	1.4 ( 24)	2.8 ( 46)

The worth of these studies and reports is directly related to the interest of hospital medical and nursing staffs and to the cooperative, constructive consideration of the events occurring not only in their community, but in the entire State. The perinatal mortality study questionnaires for 1962 were completed for only 63% of the cases, as compared with 71% in the previous report. The deaths of women associated with pregnancy totalled ten in 1962--equal to those of the three previous years!

It is anticipated that the hospitals will continue their cooperation in the reporting of vital statistics. It is hoped that it will be possible to reduce, if not eliminate, the discrepancy between the figures obtained from the Division of Records and Statistics and from the quarterly reports. So that the administrators and the medical and nursing staffs may review the report and consider changes in their own hospital, the hospital's reported live births will be checked in red. The printed figures represent the totals from the quarterly reports. Where the figures differ, the ones from Vital Statistics will be written in red alongside the printed figures.

A five year cumulative report is not included. Some hospitals have not operated continuously during the past five years and others have closed, so a cumulative report does not seem meaningful at this time.

Division of Child Health Services  
of the Montana State Board of Health

and

Maternal and Child Welfare Committee  
of the Montana Medical Association

200  
DCHS - MSBH  
5/24/63

Chart #1  
GENERAL HOSPITALS  
(100 beds or more)

Montana - 1962

Infant and Fetal Mortalities

Total Live Births	Number of Deaths					Rate Per 1,000 Live Births				
	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal
6,556	143	18	125	97	222	21.8	2.7	19.1	14.8	33.9
1,127	29	2	27	19	46	25.8	1.8	24.0	16.8	40.8
1,049	22	2	20	16	36	21.0	1.9	19.1	15.3	34.4
944	16	0	16	11	27	17.0	0.0	17.0	11.7	28.7
886	19	3	16	17	33	21.4	3.4	18.0	19.2	37.2
878	26	6	20	8	28	29.6	6.8	22.8	9.1	31.9
751	16	3	13	13	26	21.3	4.0	17.3	17.3	34.6
498	8	1	7	7	14	16.1	2.0	14.1	14.1	28.2
423	7	1	6	6	12	16.6	2.4	14.2	14.2	28.4

Chart #2  
 INTERMEDIATE GENERAL HOSPITALS  
 (40 - 99 beds)

Montana - 1962

Infant and Fetal Mortalities

Total Live Births	Number of Deaths					Rate Per 1,000 Live Births				
	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal
6,138	89	5	84	66	150	14.5	0.8	13.7	10.8	24.5
610	8	1	7	5	12	13.1	1.6	11.5	8.2	19.7
564	8	1	7	0	7	14.2	1.8	12.4	0.0	12.4
513	10	0	10	8	18	19.5	0.0	19.5	15.6	35.1
475	3	0	3	3	6	6.3	0.0	6.3	6.3	12.6
418	6	0	6	4	10	14.4	0.0	14.4	9.6	24.0
404	4	0	4	1	5	9.9	0.0	9.9	2.5	12.4
353	5	1	4	5	9	14.2	2.8	11.3	14.2	25.5
351	7	1	6	7	13	19.9	2.8	17.1	19.9	37.0
350	5	0	5	5	10	14.3	0.0	14.3	14.3	28.6
334	8	1	7	5	12	24.0	3.0	21.0	15.0	36.0

Chart #2  
 INTERMEDIATE GENERAL HOSPITALS  
 (40 - 99 beds)

Montana - 1962 (continued)

Infant and Fetal Mortalities

Total Live Births	Number of Deaths					Rate Per 1,000 Live Births				
	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal
294	6	0	6	4	10	20.2	0.0	20.2	13.6	33.8
281	4	0	4	5	9	14.2	0.0	14.2	17.8	32.0
271	3	0	3	5	8	11.1	0.0	11.1	18.5	29.6
266	3	0	3	2	5	11.3	0.0	11.3	7.5	18.8
221	4	0	4	2	6	18.1	0.0	18.1	9.5	27.6
183	1	0	1	2	3	5.5	0.0	5.5	10.9	16.4
183	4	0	4	2	6	21.9	0.0	21.9	11.0	32.9
67	0	0	0	1	1	0.0	0.0	0.0	14.9	14.9

Chart #3  
SMALL GENERAL HOSPITALS  
(10 - 39 beds)

Montana - 1962

Infant and Fetal Mortalities

Total Live Births	Number of Deaths					Rate Per 1,000 Live Births				
	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal
3,775	73	23	50	51	101	19.3	6.1	13.2	13.5	26.7
294	4	0	4	1	5	13.6	0.0	13.6	3.4	17.0
271	3	0	3	4	7	11.1	0.0	11.1	14.7	25.8
231	8	2	6	4	10	34.6	8.6	26.0	17.3	43.3
229	7	0	7	5	12	30.6	0.0	30.6	21.8	52.4
194	7	4	3	3	6	36.0	20.6	15.4	15.4	30.8
190	11	11	0	1	1	57.9	57.9	0.0	5.3	5.3
164	1	0	1	0	1	6.1	0.0	6.1	0.0	6.1
129	2	1	1	1	2	15.6	7.8	7.8	7.8	15.6
128	2	0	2	2	4	15.6	0.0	15.6	15.6	31.2
128	1	0	1	4	5	7.8	0.0	7.8	31.2	39.0

Chart #3  
SMALL GENERAL HOSPITALS  
(10 - 39 beds)

Montana - 1962 (continued)

Infant and Fetal Mortalities

Total Live Births	Number of Deaths					Rate Per 1,000 Live Births				
	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal
125	1	1	0	4	4	8.0	8.0	0.0	32.0	32.0
124	3	2	1	2	3	24.2	16.1	8.1	16.1	24.2
120	0	0	0	3	3	0.0	0.0	0.0	25.0	25.0
118	0	0	0	2	2	0.0	0.0	0.0	17.0	17.0
113	1	0	1	0	1	8.9	0.0	8.9	0.0	8.9
109	2	0	2	0	2	18.4	0.0	18.4	0.0	18.4
95	1	0	1	2	3	10.5	0.0	10.5	21.1	31.6
79	5	0	5	1	6	63.5	0.0	63.5	12.7	76.2
76	1	0	1	1	2	13.2	0.0	13.2	13.2	26.4
75	3	2	1	2	3	40.1	26.7	13.4	26.7	40.1

Chart #3  
SMALL GENERAL HOSPITALS  
(10 - 39 beds)

Montana - 1962 (continued)

Infant and Fetal Mortalities

Total Live Births	Number of Deaths					Rate Per 1,000 Live Births				
	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal
74	2	0	2	0	2	27.0	0.0	27.0	0.0	27.0
69	1	0	1	1	2	14.5	0.0	14.5	14.5	29.0
66	1	0	1	2	3	15.2	0.0	15.2	30.4	45.6
65	0	0	0	1	1	0.0	0.0	0.0	15.4	15.4
65	0	0	0	2	2	0.0	0.0	0.0	30.8	30.8
62	3	0	3	1	4	48.4	0.0	48.4	16.1	64.5
57	1	0	1	1	2	17.6	0.0	17.6	17.6	35.2
55	1	0	1	0	1	18.2	0.0	18.2	0.0	18.2
48	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
41	1	0	1	1	2	24.4	0.0	24.4	24.4	48.8

Chart #3  
 SMALL GENERAL HOSPITALS  
 (10 - 39 beds)

Montana - 1962 (continued)

Infant and Fetal Mortalities

Total Live Births	Number of Deaths					Rate Per 1,000 Live Births				
	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal
40	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
40	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
39	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
29	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
26	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
6	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0
1	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0

Chart #4  
 COMMUNITY FACILITY  
 (Under 10 beds)

Montana - 1962

Infant and Fetal Mortalities

Total Live Births	Number of Deaths						Rate Per 1,000 Live Births				
	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal	Infant	1 - 12 months	Neo- natal	Still- births	Peri- natal	
72	1	0	1	2	3	13.9	0.0	13.9	27.8	41.7	
27	1	0	1	1	2	37.0	0.0	37.0	37.0	74.0	
26	0	0	0	1	1	0.0	0.0	0.0	38.4	38.4	
19	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	



